

# Nicholas Yim

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## EDUCATION

**BS (Double Major): Computer Science / Electrical and Computer Engineering**  
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

May 2025  
New Brunswick, NJ

- **GPA: 3.862** | Dean's List all semesters | Eta Kappa Nu (HKN) Honor Society
- **Relevant Coursework:** Software Engineering, Software Methodology, Design & Analysis of Algorithms, Data Structures, Computer Arch. & Assembly Lang., Info and Data Mgmt, Linear Systems & Signals, Electronic Devices

## EXPERIENCE

**Software Engineering Fellow**

Jul. 2024 – Sept. 2024

HEADSTARTER AI

Remote

- Engineered 5+ AI/ML apps utilizing Next.js, React.js, OpenAI API, Stripe API, RAG, AWS, culminating in a final project aiming to ship to 1000+ users
- Developed projects through full SDLC, leading 3 other fellows using MVC design patterns
- Coached by Google, Amazon, and Bloomberg engineers on Agile, CI/CD, Git, and microservice patterns

**Fulfillment Technology Intern**

Jun. 2024 – Aug. 2024

HELLOFRESH

Newark, NJ

- Refactored a complex SQL stored procedure into a Python script, increasing execution efficiency by 90% and facilitating quicker financial reviews
- Deployed development updates, improving workflow productivity across 10+ distribution centers in North America
- Addressed critical production issues on server-side via SQL queries and HighJump/Koerber WMS, leading to the effective management of 300,000+ inventory items per day
- Executed comprehensive QA testing, accelerating production deployment speed by an average of 15%
- Generated precise design documentation for new features, providing essential guidelines for 60+ team analysts/developers

**Data Science Extern**

May 2023 – Aug. 2023

ECPAT (via RUTGERS MBS EXTERNSHIP EXCHANGE)

NJ

- Designed a comprehensive crime mapping program using Python's Pandas, GeoPandas, and Matplotlib libraries; analyzed 7M+ crime incidents to identify high-risk areas, improving community safety initiatives
- Cleaned/organized millions of lines of crime data using Python and CSV files, enhancing analysis accuracy
- Generated visual representations of trafficking and related crimes on Tableau, highlighting trends and hotspots

## PROJECTS / CERTIFICATIONS

### Certifications:

- AWS Certified Cloud Practitioner

**GhostLink** | *TypeScript (Next.js), Python (Flask), Amazon RDS, OpenAI, Docker*

Aug. 2024 - Present

- *Project Link:* <https://ghostlink.app/>
- Build a paid platform for content creators to increase user interaction and accelerate growth on LinkedIn
- Implement an AI-driven video-to-text workflow automating transcription and LinkedIn post creation, reducing manual effort by 95% and enabling creators to publish engaging posts rapidly
- Train an AI model on top-performing LinkedIn posts, each with 50,000+ impressions and 500+ reactions, to optimize engagement
- Collaborate with creators (totaling 1.5M+ followers) and iterate on user feedback

**Serenity Sphere** | *Next.js, Python (Flask), PostgreSQL, Pinecone*

Aug. 2024

- *Project Link:* <https://serenity-sphere-snowy.vercel.app/>
- Launched an innovative interface focused on holistic health, hosting 5 distinct AI chatbots along with live support
- Designed a RAG framework, sourcing information from 40+ hand-picked YouTube videos from reputable professionals to train the chatbots
- Maintained a PostgreSQL database to facilitate complex querying for enhanced chat functionalities

**Gym Haven** | *Node.js, React.js, MongoDB*

Jan. 2024 – May 2024

- Created a subscription-based e-commerce solution for fitness equipment
- Managed a 12-member team, delegating individual assignments and organizing weekly meetings
- Incorporated OAuth 2.0 for user management, Stripe API for payment processing, Web3Forms and OpenAI APIs for customer service, and EasyPost API to mimic shipping
- Composed detailed reports outlining data collections, application structure, and 40+ REST API endpoints

**HackRU (Winner)** | *Python, Streamlit, AWS EC2*

Feb. 2023

- Achieved first place in health track out of 170 competitors
- Developed a web application in Python utilizing Streamlit open-source app framework to calculate and display live crowd levels at on-campus fitness centers based on user-input
- Deployed the website on a Linux server via an AWS EC2 instance

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Python, SQL, MATLAB, HTML/CSS, C, C++

**Frameworks:** Node.js, Next.js, Flask, React.js, Jasmine, JUnit, Bootstrap

**Tools/Technologies:** Git, VS Code, Jira, AWS, PostgreSQL, MongoDB, Pinecone, MySQL, Docker, Linux, Firebase, Tableau